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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Complete if Known	
Application Number	10/693,429
Filing Date	2003-10-23
First Named Inventor	WALTON; J. Rodney
Art Unit	2467
Examiner Name	SMITH, Marcus

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Attorney Docket No: 030417

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2/If known</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US5479447	12-26-1995	CHOW; Peter S. et al.	
	002	US5790550	08-04-1998	PEETERS; Johan et al.	
	003	US5822374	10-13-1998	LEVIN; Howard E.	
	004	US6072779	06-06-2000	TZANNES; Marcos et al.	
	005	US6122247	09-19-2000	LEVIN; Howard E. et al.	
	006	US6205410	03-20-2001	CAI; Lujing	
	007	US6222888	04-24-2001	KAO; Chihsin et al.	
	008	US6330277	12-11-2001	GELBLUM; Ehud Alexander et al.	
	009	US6426971	07-30-2002	WU; Qiang et al.	
	010	US6463290	10-08-2002	STILP; Louis A. et al.	
	011	US6478422	11-12-2002	HANSEN; Richard Arvid	
	012	US6510184	01-21-2003	OKAMURA; Yusaku	
	013	US6744811	06-01-2004	KANTSCHUK; Amir	
	014	US6798738	09-28-2004	DO; Sang-Hyun et al.	
	015	US6804191	10-12-2004	RICHARDSON; Tom	
	016	US6821535	11-23-2004	NURMI; Juha et al.	
	017	US6850252	02-01-2005	HOFFBERG; Steven M.	
	018	US6859503	02-22-2005	PAUTLER; Joseph J. et al.	
	019	US6927728	08-09-2005	VOOK; Frederick W. et al.	
	020	US6959171	10-25-2005	TSIEN; Chih C. et al.	
	021	US6980601	12-27-2005	JONES; David Charles	

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	022	US6985534	01-10-2006	MEISTER; Wolfgang	
	023	US7003044	02-21-2006	SUBRAMANIAN; Chandrasekarapuram A. et al.	
	024	US7006848	02-28-2006	LING; Fuyun et al.	
	025	US7039125	05-02-2006	FRIEDMAN; Vladimir	
	026	US7058367	06-06-2006	LUO; Hui et al.	
	027	US7127009	10-24-2006	BERTHET; Antoine et al.	
	028	US7130362	10-31-2006	GIRARDEAU; James et al.	
	029	US7137047	11-14-2006	MITLIN; Vlad et al.	
	030	US7184713	02-27-2007	KADOUS; Tamer et al.	
	031	US7191381	03-13-2007	GESBERT; David J. et al.	
	032	US7274734	09-25-2007	TSATSANIS; Michail	
	033	US7333556	02-19-2008	MALTSEV; Alexander A. et al.	
	034	US7356004	04-08-2008	YANO; Takashi et al.	
	035	US7356089	04-08-2008	JIA; Ming et al.	
	036	US7379492	05-27-2008	HWANG; In Tae	
	037	US7508748	03-24-2009	KADOUS; Tamer	
	038	US7599443	10-06-2009	IONESCU; Dumitru M. et al.	
	039	US7603141	10-13-2009	DRAVIDA; Subrahmanyam	
	040	US7653142	01-26-2010	KETCHUM; John W. et al.	

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041	US20020027951	03-07-2002	GORMLEY; Eamonn et al.		
042	US20020044610	04-18-2002	JONES; David		
043	US20020075830	06-20-2002	HARTMAN; David L. Jr.		
044	US20030003863	01-02-2003	THIELECKE; Jorn et al.		
045	US20030039317	02-27-2003	TAYLOR; Douglas Hamilton et al.		
046	US20030185311	10-02-2003	KIM; Yong-Woon		
047	US20040076224	04-22-2004	ONGGOSANUSI; Eko N. et al.		
048	US20040120411	06-24-2004	WALTON; Jay Rodney et al.		
049	US20040151108	08-05-2004	BLASCO CLARET; Jorge Vicente et al.		
050	US20040151122	08-05-2004	LAU; Kin Nang et al.		
051	US20040184398	09-23-2004	WALTON; Jay Rod et al.		
052	US20040252632	12-16-2004	BOURDOUX; Andre et al.		
053	US20050047515	03-03-2005	WALTON; J. Rodney et al.		
054	US20050147177	07-07-2005	SEO; Dong-Youn et al.		
055	US20050185575	08-25-2005	HANSEN; Christopher J. et al.		
056	US20050220211	10-06-2005	SHIM; Dong-Hee et al.		
057	US20050276343	12-15-2005	JONES; David Charles		
058	US20060018395	01-26-2006	TZANNES; Marcos C.		
059	US20060067417	03-30-2006	PARK; Chang-Soon et al.		

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	060	US20060072649	04-06-2006	CHANG; Kyung-Hi et al.	
	061	US20060159120	07-20-2006	KIM; Joonsuk	
	062	US20060209894	09-21-2006	TZANNES; Marcos et al.	
	063	US20060209937	09-21-2006	TANAKA; Yoshinori et al.	
	064	US20080069015	03-20-2008	WALTON; J. Rodney et al.	
	065	US20080267098	10-30-2008	WALTON; J. Rodney et al.	
	066	US20080267138	10-30-2008	WALTON; J. Rodney et al.	
	067	US20100067401	03-18-2010	MEDVEDEV; Irina et al.	
	068	US20100119001	05-13-2010	WALTON; J. Rodney et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	069	CN1469662	01-21-2004	LG ELECTRONICS INC.		<input checked="" type="checkbox"/>
	070	CN1537371	10-13-2004	MATSUSHITA ELECTRIC IND CO LTD.		<input checked="" type="checkbox"/>
	071	EP1126673A2	08-22-2001	THOMSON LICENSING INC [FR]		<input type="checkbox"/>
	072	EP1137217	09-26-2001	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	073	EP1416688A1	05-06-2004	MOTOROLA INC [US]		<input type="checkbox"/>

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		Country Code <sup>3</sup> - Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
074	EP1447934A1		08-18-2004	INST EURECOM G I E [FR]		<input type="checkbox"/>
075	JP06003956		01-14-1994	SEIKO EPSON CORP.		<input checked="" type="checkbox"/>
076	JP10303794A		11-13-1998	MITSUBISHI ELECTRIC CORP .		<input checked="" type="checkbox"/>
077	JP2000078105		03-14-2000	NEC CORP.		<input checked="" type="checkbox"/>
078	JP2002232943A		08-16-2002	SONY CORP.		<input checked="" type="checkbox"/>
079	JP2002504283		02-05-2002	AWARE INC.		<input checked="" type="checkbox"/>
080	JP2003198442		07-11-2003	HITACHI LTD., et al.		<input checked="" type="checkbox"/>
081	JP2004266586		09-24-2004	HITACHI LTD.		<input checked="" type="checkbox"/>
082	JP2004297172		10-21-2004	SHARP CORP.		<input checked="" type="checkbox"/>
083	JP2004535694		11-25-2004	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
084	JP2005519520		06-30-2005	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
085	JP2006504372		02-02-2006	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
086	KR200011799		02-25-2000	SAMSUNG ELECTRONICS CO LTD [KR]		<input checked="" type="checkbox"/>
087	KR20010098861		11-08-2001	NEC CORPORATION ., et al.		<input checked="" type="checkbox"/>
088	KR20030085040		11-01-2003	QUALCOMM INCORPORATED.		<input checked="" type="checkbox"/>
089	TW545006B		08-01-2003	WORLDSPACE MAN CORP [US]		<input checked="" type="checkbox"/>
090	TW583842B		04-11-2004	KONINKL PHILIPS		<input checked="" type="checkbox"/>

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				ELECTRONICS NV [NL]		
091	TWI230525	04-01-2005	QUALCOMM INC [US]			<input checked="" type="checkbox"/>
092	WO02093784A1	11-21-2002	QUALCOMM INC [US]			<input type="checkbox"/>
093	WO03075479	09-12-2003	QUALCOMM INCORPORATED [US]			<input type="checkbox"/>
094	WO04038986	05-06-2004	QUALCOMM INCORPORATED,US.			<input type="checkbox"/>
095	WO05041515	05-06-2005	QUALCOMM INC.			<input type="checkbox"/>
096	WO05043855	05-12-2005	QUALCOMM INCORPORATED [US]			<input type="checkbox"/>
097	WO2004038985A2	05-06-2004	QUALCOMM INC [US]			<input type="checkbox"/>
098	WO2005046113A2	05-19-2005	ATHEROS COMM INC [US], et al.			<input type="checkbox"/>
099	WO86007223	12-04-1986	TELEBIT CORPORATION.			<input type="checkbox"/>
100	WO9507578	03-16-1995	QUALCOMM INCORPORATED [US]			<input type="checkbox"/>
101	WO9736377A1	10-02-1997	MOTOROLA INC [US]			<input type="checkbox"/>
102	WO9857472	12-17-1998	AWARE INC [US]			<input type="checkbox"/>
103	WO99014878	03-25-1999	QUALCOMM INCORPORATED.			<input type="checkbox"/>

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2

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	104	BONG-GEE SONG et al., "Prefilter design using the singular value decomposition for MIMO equalization" SIGNALS, SYSTEMS AND COMPUTERS, vol. 1, 3 November 1996 (1996-11-03), - 6 November 1996 (1996-11-06), pages 34-38, XP010231388, IEEE, US DOI : 10.1109/ACSSC.1996.600812 ISBN: 978-0-8186-7646-8, page 35, column 2, paragraph 4 - page 36, column 1.	<input type="checkbox"/>
	105	Grunheid et al., "Adaptive Modulation and Multiple Access for the OFDM Transmission Technique", Wireless Personal Communications 13: 5/13/2000, 2000 Kluwer Academic Publishers, pgs 4-13.	<input type="checkbox"/>
	106	LE GOFF S ET AL: "Turbo-codes and high spectral efficiency modulation" COMMUNICATIONS, 1994. ICC '94, SUPERCOMM/ICC '94, CONFERENCE RECORD, " SERVING HUMANITY THROUGH COMMUNICATIONS." IEEE INTERNATIONAL CONFERENCE ON NEW ORLEANS, LA, USA 1-5 MAY 1994, NEW YORK, NY, USA.IEEE, 1 May 1994 (1994-05-01), pages 645-649, XP010126658 ISBN: 978-0-7803-1825-0.	<input type="checkbox"/>
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